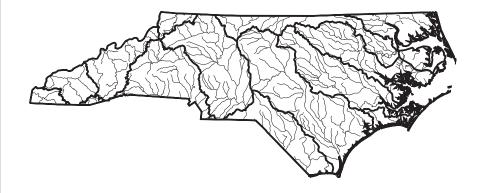
North Carolina



 Basin Boundaries (USGS 6-Digit Hydrologic Unit)

For a copy of the North Carolina 1996 305(b) report, contact:

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Surface Water Quality

About 80% of the State's surveyed freshwater rivers and streams have good water quality that fully supports aquatic life uses, 17% have fair water quality that partially supports aquatic life uses, and 3% have poor water quality that does not support aquatic life uses. Ten percent of the surveyed rivers do not fully support swimming. The major sources of impairment are agriculture (responsible for 53% of the impaired river miles), urban runoff (responsible for 16%), and construction (responsible for 13%). These

sources generate siltation, bacteria, and organic wastes that deplete dissolved oxygen.

Only 6% of the surveyed lakes in North Carolina are impaired for swimming and 17% are impaired for aquatic life uses. A few lakes are impacted by dioxin, metals, and excessive nutrient enrichment. The Champion Paper mill on the Pigeon River is the source of dioxin contamination in Waterville Lake. The State and the mill implemented a dioxin minimization program in the mid-1980s and completed a modernization program in 1993 that will reduce water usage and discharges.

About 94% of the estuaries and sounds in North Carolina fully support designated uses. Agriculture, urban runoff, septic tanks, and point source discharges are the leading sources of nutrients, bacteria, and low dissolved oxygen that degrade estuaries.

Ground Water Quality

About half of the people in North Carolina use ground water as their primary supply of drinking water. Ground water quality is generally good. The leading source of ground water contamination is leaking underground storage tanks, which contaminate ground water with gasoline, diesel fuel, and heating oil. Comprehensive programs are under way to assess potential contamination sites and develop a ground water protection strategy for the State.

Programs to Restore Water Quality

In 1993-1995, North Carolina continued its aggressive program to control nonpoint source pollution. North Carolina established the NPS Workgroup, implemented NPS Teams for each of the 17 river basins, published a guide for establishing a point/nonpoint source pollution reduction trading system, and introduced the Draft Interim Plan of the Neuse River Nutrient Sensitive Waters (NSW) Management Strategy.

Programs to Assess Water Quality

Surface water quality in North Carolina was primarily evaluated using physical and chemical data collected by the Division of Environmental Management (DEM) from a statewide fixed-station network and biological assessments. These include macroinvertebrate (aquatic insect) community surveys, fish community structure analyses, phytoplankton analyses, bioassays, and limnological review of lakes and watersheds. Other sources of information were point source monitoring data, shellfish closure reports, lake trophic state studies, and reports prepared by other local, State, and Federal agencies.

- Not reported in a quantifiable format or unknown.
- ^a A subset of North Carolina's designated uses appear in this figure. Refer to the State's 305(b) report for a full description of the State's uses.
- ^bIncludes nonperennial streams that dry up and do not flow all year.

Individual Use Support in North Carolina

Designated Use ^a	-	Good (Fully Supporting)	Good (Threatened)	Fair (Partially Supporting)	Poor (Not Supporting)	Poor (Not Attainable)
Rivers and	Streams (опротину,	Attumation
	Total Miles		,,			
	Surveyed	47	33			
	24,612		33	17	3	-
	_	_		_	_	_
					<u>-</u>	-
		67				
	1,302		23	9	1	-
_akes (Total	Acres = 306	,584)				
	Total Acres	94				
	Surveyed		•	•		
5)20 "	311,220	94	0	6	<1	-
	311,220		0	0	6	-
		10				
	210,072	48	35	_17_	0	_
			400)			
Estuaries (1		Miles = 3,	122)			
	Total Square Miles Surveyed	ı				
		-	-	-	-	-
	_	_	_	_	_	_
			-			
		-	-	-	-	-
	_	_	_	_	-	-
			rounding.			